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DFD 3218-59

Recent Technical Proposals or Ideas

Photographic Intelligence Center

1. Notice of an invention has been received from Kessler Sales Corporation (Invention Brokers) involving a special type of camera equipped with an illuminating attachment: This invention provides a camera having means for projecting a spot of light a distance from the camera and means for photographing the area illuminated by the spot of light simultaneously. Basically, the unit is a small pistol-type camera designed for police officers and the like and one which has means for repeated and automatic transporting of the film past the shutter opening together with self-cocking shutter release means. Inasmuch as this camera is in the form of a revolver, it can be operated with one hand and with split second timing.
2. Wright Air Development Center Contract AF 33 (616) - 3678, Task No. 62171, final report on "The Use of Single Crystals of Silver Bromide for Photographic Purposes," by James E. LuValls and Gershen M. Goldberg of Technical Operations Incorporated, Arlington, Massachusetts, has been received. The large single crystals have been produced synthetically. They have taken 1,000,000 roentgens of Cobalt 60 without fogging. They can be produced 70mm wide, 1000' long, and .005 inch thick. They have a resolution capability of 300 l/mm and can be developed in 30 seconds in a single solution. Further research is needed to develop the crystals into a practical taking medium and to develop a method of manufacturing them on a continuous flow basis. The Air Force would like some other branch of the government to add \$50,000 to their \$150,000 to continue this project.
3. Technical Operations Incorporated is performing a state-of-the-art study for the Air Force at Wright Patterson on all unconventional photosensitive processes. This should be completed about November 1959. An unbiased view is being sought by employing a picked panel of experts from all industry.
4. General Electric has developed an electron sensitive mylar tape which will react to a 1 micron electron beam. Images thus recorded may be projected. It may be used to record photos, infrared, radar, or electronic signals.

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Office of Communications

1. The following technical report has been received by the Office of Communications: Final engineering report on electronic reconnaissance set AN/DLD-1 (XA) WADC Contract AF 33 (600)-26730 Report 2651-1 dated April 1959 by Airborne Instruments Laboratory, Mineola, New York, classification SECRET. (This is a completely unattended reconnaissance system for high performance aircraft and unmanned vehicles. System intercepts signals in 1-40 KMC range, reduces data to digital form, records it on magnetic tape suitable for processing by IBM-704 computer.)

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